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TECHNICAL STAFF

52
D2

- d) a polynucleotide sequence complementary to b), and
- e) a ribonucleotide equivalent of a)-d).

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Sub
D3

- 41. An isolated polynucleotide of claim 40, having a sequence of SEQ ID NO:1.
- 42. An isolated polynucleotide of claim 40, having a sequence of SEQ ID NO:3.
- 43. An isolated polypeptide encoded by a polynucleotide of claim 40.
- 44. An isolated polypeptide of claim 43, having a sequence of SEQ ID NO:2.
- 45. An isolated polypeptide of claim 43, having a sequence of SEQ ID NO:4.
- 46. A recombinant polynucleotide comprising a promoter sequence operably linked to a polynucleotide of claim 40.
- 47. A cell transformed with a recombinant polynucleotide of claim 46.
- 48. A method for producing a polypeptide, the method comprising:
 - a) culturing a cell under conditions suitable for expression of the polypeptide, wherein said cell is transformed with a recombinant polynucleotide of claim 46, and
 - b) recovering the polypeptide so expressed.
- 49. A method of claim 48, wherein the polypeptide has the sequence of SEQ ID NO:2.
- 50. A method of claim 48, wherein the polypeptide has the sequence of SEQ ID NO:4.
- 51. An isolated antibody which specifically binds to a polypeptide of claim 43.
- 52. An isolated polynucleotide comprising a sequence selected from the group consisting of:
 - a) a polynucleotide sequence of SEQ ID NO:1 or SEQ ID NO:3,
 - b) a naturally occurring polynucleotide sequence which hybridizes under stringent conditions to the full sequence of a),

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- c) a polynucleotide sequence complementary to a),
- d) a polynucleotide sequence complementary to b), and
- e) a ribonucleotide equivalent of a)-d).

53. A method for detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 52, the method comprising:

- See D3
- a) hybridizing the sample with a probe comprising at least 20 contiguous nucleotides, said probe comprising a sequence complementary to said target polynucleotide in the sample, and which said probe specifically hybridizes to said target polynucleotide, under conditions whereby a hybridization complex is formed between said probe and said target polynucleotide or fragments thereof, and
 - b) detecting the presence or absence of said hybridization complex, and, optionally, if present, the amount thereof.

54. A method for detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 52, the method comprising:

- a) amplifying said target polynucleotide or fragment thereof using polymerase chain reaction amplification, and
- b) detecting the presence or absence of said amplified target polynucleotide or fragment thereof, and, optionally, if present, the amount thereof.

55. A composition comprising a polypeptide of claim 43 and an acceptable excipient.

56. A composition of claim 55, wherein the polypeptide has the sequence of SEQ ID NO:2.

57. A composition of claim 55, wherein the polypeptide has the sequence of SEQ ID NO:4.

58. A method for screening a compound for effectiveness as an agonist of a polypeptide of claim 43, the method comprising:

- c1
- a) exposing a sample comprising a polypeptide of claim 43 to a compound, and
 - b) detecting agonist activity in the sample.

59. A method for screening a compound for effectiveness as an antagonist of a polypeptide